

10/540,993

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minutes  
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source  
(CS) field  
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced  
NEWS 5 AUG 24 CA/CAPLUS enhanced with legal status information for  
U.S. patents  
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in  
CAS REGISTRY  
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM  
thesaurus  
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and  
Taiwanese Content Expanded  
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human  
translated claims for Chinese Applications and  
Utility Models  
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases  
NEWS 11 NOV 23 Annual Reload of IFI Databases  
NEWS 12 DEC 01 FRFULL Content and Search Enhancements  
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity  
feature for sorting BLAST answer sets  
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM  
thesaurus added  
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status  
display data from INPADOCDB  
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and  
sequence information  
NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent  
Records Containing Equivalent Chemical Indexing  
in CA/CAPLUS  
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NEWS 21 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing  
of Author Abstracts  
NEWS 22 FEB 16 New FASTA Display Formats Added to USGENE and PCTGEN  
NEWS 23 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content  
and Features  
NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail  
Addresses

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STRUCTURE FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1
DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1
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=>
Uploading C:\Program Files\Stnexp\Queries\10540993disubstitution.str
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L1 STRUCTURE UPLOADED

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=> d l1
L1 HAS NO ANSWERS
L1 STR
```

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

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=> s ll
SAMPLE SEARCH INITIATED 10:51:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      491 TO ITERATE
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100.0% PROCESSED          491 ITERATIONS          14 ANSWERS
SEARCH TIME: 00.00.01
```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:   8491 TO    11149
PROJECTED ANSWERS:      56 TO     504

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L2 14 SEA SSS SAM L1

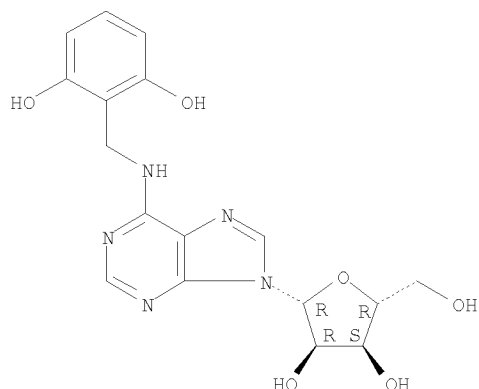
=> d scan

L2 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Adenosine, N-[(2,6-dihydroxyphenyl)methyl]- (9CI)  
MF C17 H19 N5 O6

Absolute stereochemistry.

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10/540,993



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):s l1 full  
'S L1 FULL' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".  
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 full  
FULL SEARCH INITIATED 10:52:07 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 9383 TO ITERATE

100.0% PROCESSED 9383 ITERATIONS 249 ANSWERS  
SEARCH TIME: 00.00.01

L3 249 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 191.54 191.76

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FILE COVERS 1907 - 17 Mar 2010 VOL 152 ISS 12  
FILE LAST UPDATED: 16 Mar 2010 (20100316/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate

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substance identification.

=> s 13

L4 48 L3

=> d bib abs hitstr 40-48

L4 ANSWER 40 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1975:557754 CAPLUS

DN 83:157754

OREF 83:24691a,24694a

TI Synthesis and biological activities of some N6-(nitro- and  
-aminobenzyl)adenosines

AU Dutta, Shib P.; Tritsch, George L.; Cox, Clifford; Chheda, Girish B.

CS Gen. Clin. Res. Cent., Roswell Park Mem. Inst., Buffalo, NY, USA

SO Journal of Medicinal Chemistry (1975), 18(8), 780-3

CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB Of 12 title compds., prepared by direct alkylation of adenosine [58-61-7] by  
a benzyl bromide derivative to give the N1-derivative followed by rearrangement in  
base, or nucleophilic displacement of Cl in 6-chloropurine nucleosides  
with an amine, several were inhibitors of adenosine aminohydrolase  
[9026-93-1] and equal to or more active than N6-benzyladenosine  
[4294-16-0] as growth inhibitors of leukemia L1210 cells. The highest  
affinity for the substrate binding site of the enzyme was shown by  
N6-p-nitrobenzyladenosine (I) [40297-54-9] and  
N6-p-nitrobenzyl-2'-deoxyadenosine (II) [56527-33-4], which were also  
relatively nontoxic. 2-Amino-6-p-nitrobenzylamino-9-( $\beta$ -D-  
ribofuranosyl)purine (III) [56527-38-9] and  
2-amino-6-p-nitrobenzylaminopurine (IV) [56527-39-0] were better  
inhibitors of L1210 cells than N6-benzyladenosine.

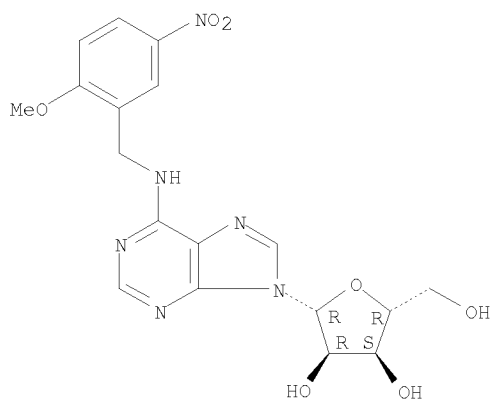
IT 40896-43-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
study, unclassified); SPN (Synthetic preparation); BIOL (Biological  
study); PREP (Preparation)  
(preparation and biol. activity of)

RN 40896-43-3 CAPLUS

CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 41 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1974:121282 CAPLUS

DN 80:121282

OREF 80:19535a,19538a

TI 2',3',5'-Tri-O-acyl-N6-benzyladenosines

IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Roesch, Egon; Dietmann, Karl

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

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DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2238923	A1	19740214	DE 1972-2238923	19720808
	CA 1003411	A1	19770111	CA 1973-177826	19730731
	GB 1384518	A	19750219	GB 1973-36489	19730801
	AU 7358857	A	19750206	AU 1973-58857	19730802
	CH 579587	A5	19760915	CH 1973-11307	19730803
	FR 2195434	A1	19740308	FR 1973-28648	19730806
	ZA 7305331	A	19740828	ZA 1973-5331	19730806
	NL 7310870	A	19740212	NL 1973-10870	19730807
	AT 7306918	A	19750115	AT 1973-6918	19730807
	AT 325784	B	19751110		
	JP 49045095	A	19740427	JP 1973-89161	19730808
PRAI	DE 1972-2238923	A	19720808		

GI For diagram(s), see printed CA Issue.

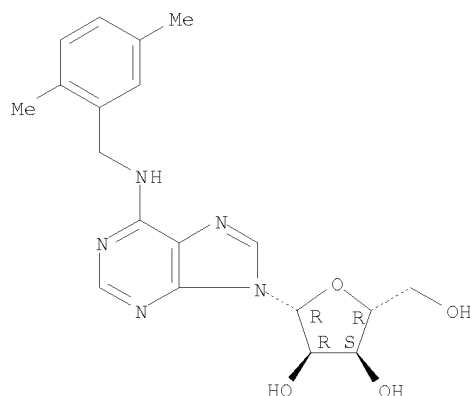
AB Eight acyladenosines I (R = Ac, Bz, or nicotinoyl, Rn1 = 2-Me, 2,5-Me2, 2,4,5-Me3, 2,5-MeOCl, or 2,5-MeSCl) were prepared in 45-85% yield by acylation of I (R = H) with Ac2O, BzCl, or nicotinoyl azide. The acyl derivs. had longer lasting effects on blood vessels and circulation than the starting compds. I (R = H).

IT 34349-31-0 34349-36-5 34349-38-7  
52622-05-6  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(acylation of)

RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

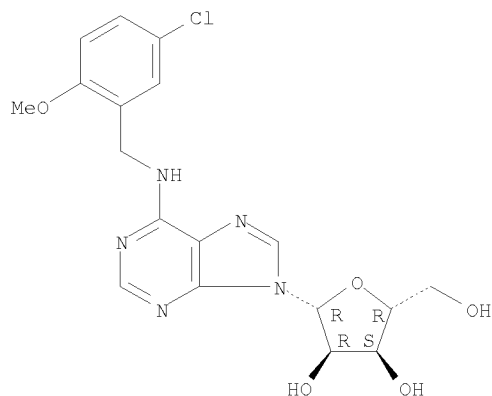
Absolute stereochemistry.



RN 34349-36-5 CAPLUS

CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



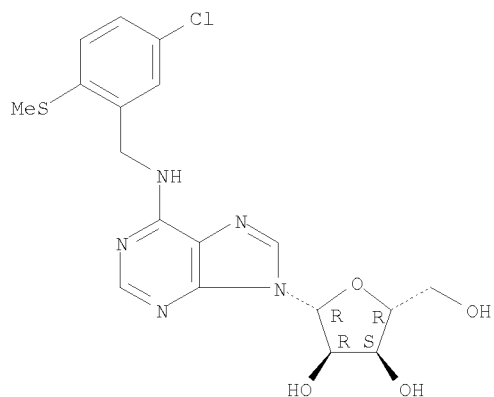
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RN 34349-38-7 CAPLUS

CN Adenosine, N-[[5-chloro-2-(methylthio)phenyl]methyl]- (9CI) (CA INDEX NAME)

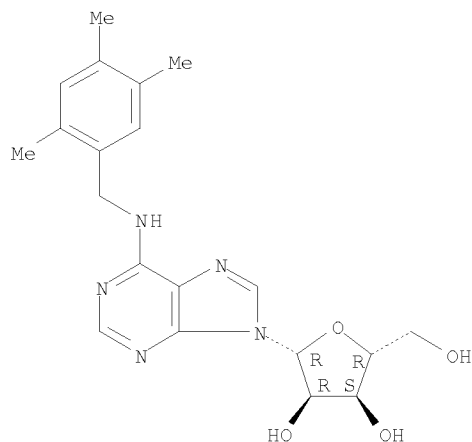
Absolute stereochemistry.



RN 52622-05-6 CAPLUS

CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 50991-71-4P 52622-01-2P 52622-02-3P

52622-03-4P 52622-04-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

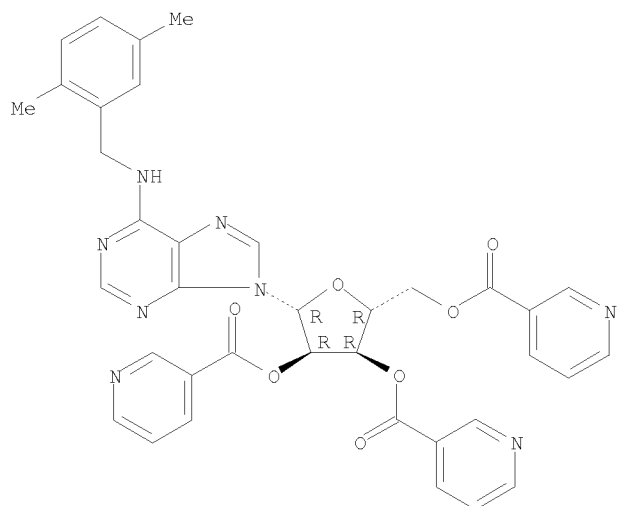
RN 50991-71-4 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-,  
2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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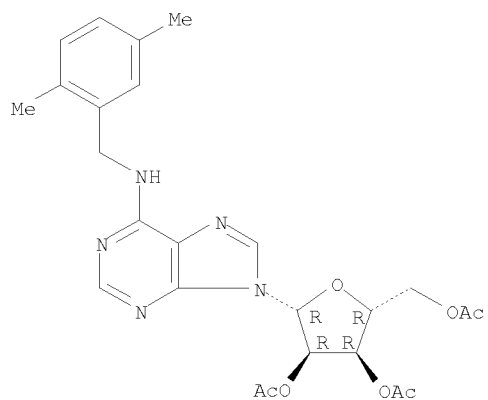
10/540,993



RN 52622-01-2 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

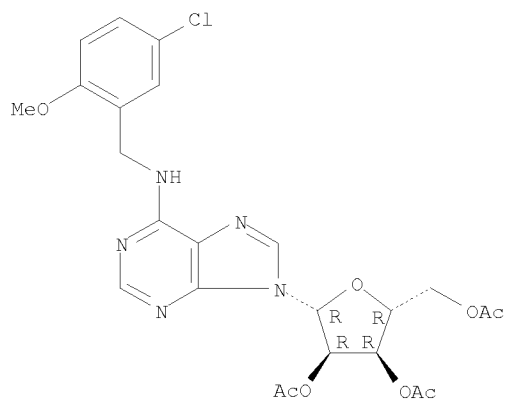
Absolute stereochemistry.



RN 52622-02-3 CAPLUS

CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

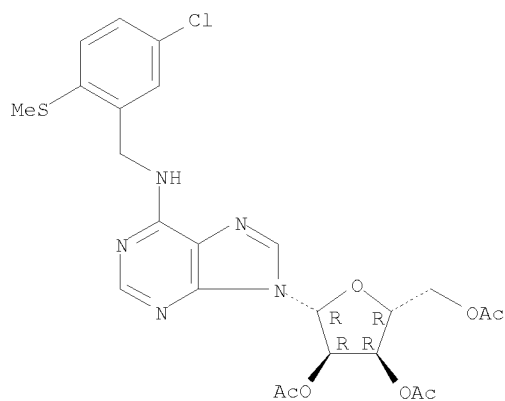


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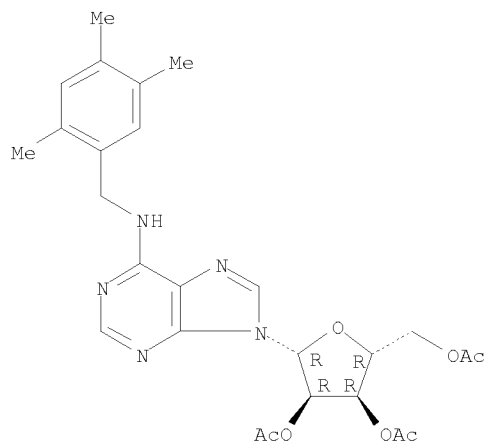
RN 52622-03-4 CAPLUS  
CN Adenosine, N-[[5-chloro-2-(methylthio)phenyl]methyl]-, 2',3',5'-triacetate  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52622-04-5 CAPLUS  
CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 42 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN  
AN 1974:27453 CAPLUS  
DN 80:27453  
OREF 80:4536h,4537a  
TI 2',3',5'-Tri-O-nicotinoyl-N-(2-methylbenzyl)adenosines  
IN Flohr, Hans; Fakhrail, Mohsen  
SO Ger. Offen., 8 pp.  
CODEN: GWXXBX

DT Patent  
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2218553	A1	19731108	DE 1972-2218553	19720417
	DE 2218553	B2	19770714		
PRAI	DE 1972-2218553		19720417		

GI For diagram(s), see printed CA Issue.

AB The adenosines I (R = H or Me), useful for the treatment of coronary and peripheral blood circulation insufficiency and as antihypertensives and

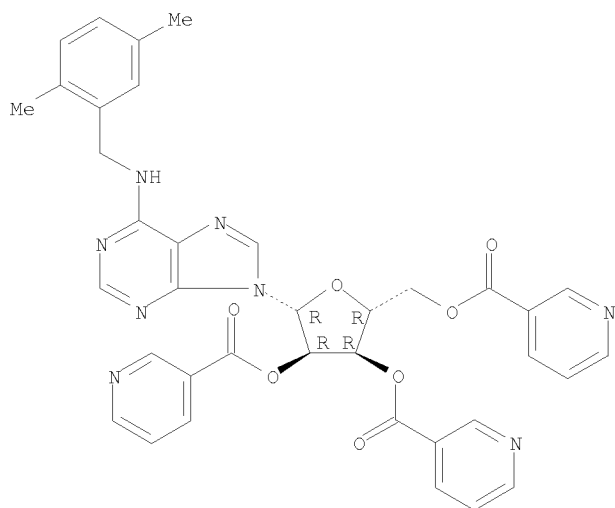
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10/540,993

antisclerotics, were prepared by successive reaction of adenosine with nicotinoyl chloride in pyridine and 5,2-RMeC6H3CH2NH2 in Me2CHOH-(Me2CH)2NH.

IT 50991-71-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 50991-71-4 CAPLUS  
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-,  
2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 43 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN  
AN 1973:124846 CAPLUS  
DN 78:124846  
OREF 78:20071a,20074a  
TI N-Benzyladenosine derivatives  
IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Juhran, Wolfgang; Stork, Harald  
PA Boehringer Mannheim G.m.b.H.  
SO Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2136624	A	19730208	DE 1971-2136624	19710722
	GB 1340643	A	19731212	GB 1972-33537	19720618
	US 3845035	A	19741029	US 1972-271098	19720712
	ZA 7204891	A	19730530	ZA 1972-4891	19720717
	CH 569035	A5	19751114	CH 1975-10617	19720719
	CH 570420	A5	19751215	CH 1972-10795	19720719
	NL 7210023	A	19730124	NL 1972-10023	19720720
	CA 979891	A1	19751216	CA 1972-147625	19720720
	SU 539532	A3	19761215	SU 1972-1812966	19720720
	FR 2146493	A1	19730302	FR 1972-26450	19720721
	AT 317446	B	19740826	AT 1972-6288	19720721
	AT 790673	A	19750415	AT 1973-7906	19720721
PRAI	DE 1971-2136624	A	19710722		
GI	For diagram(s), see printed CA Issue.				
AB	Thirty-three title compds. (I; X = NHCH2C6H5-nRn; R = Cl, OH NH2 or Br; Rn = e.g. 2-OH, 3,2-HOMe, 2,5 HOCl, 2,4- HOCl) were prepared by reaction of I (X = Cl) containing free or acetyl group-protected OH-groups with H2NCH2C6H5-nRn or from the adenosine derivative and ClCH2C6H5nRn. I had circulatory and antilipemic effects.				
IT	40896-26-2P	40896-31-9P	40896-32-0P		
	40896-39-7P	40896-41-1P	40896-43-3P		

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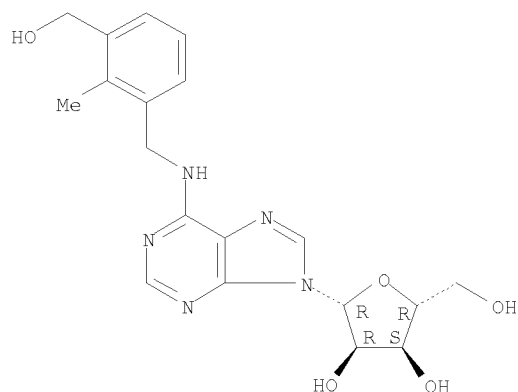
10/540,993

40896-45-5P 40958-94-9P 40958-97-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 40896-26-2 CAPLUS

CN Adenosine, N-[[3-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX  
NAME)

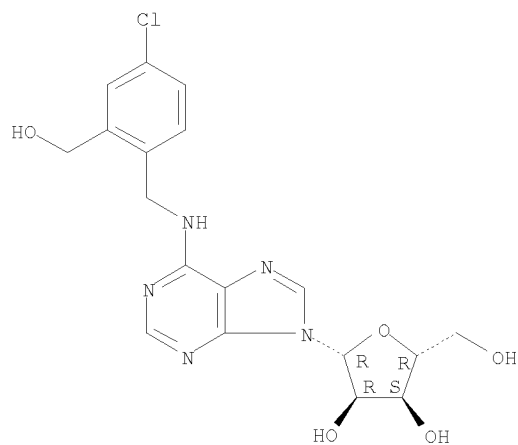
Absolute stereochemistry.



RN 40896-31-9 CAPLUS

CN Adenosine, N-[[4-chloro-2-(hydroxymethyl)phenyl]methyl]- (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.



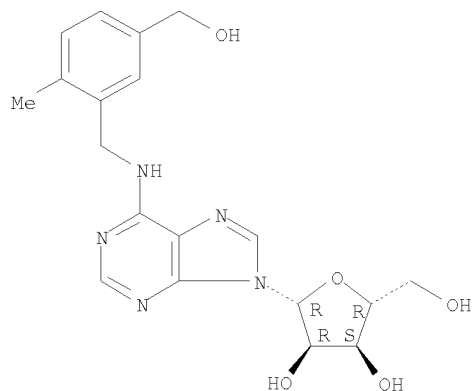
RN 40896-32-0 CAPLUS

CN Adenosine, N-[[5-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.

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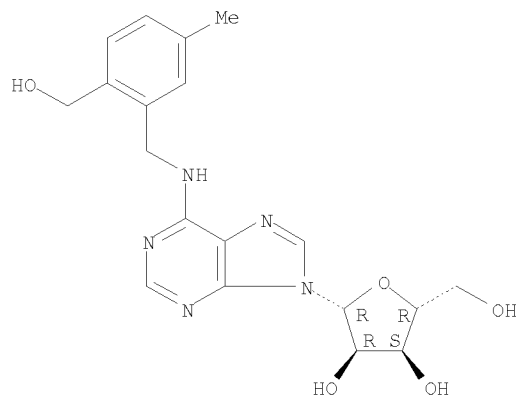
10/540,993



RN 40896-39-7 CAPLUS

CN Adenosine, N-[[2-(hydroxymethyl)-5-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

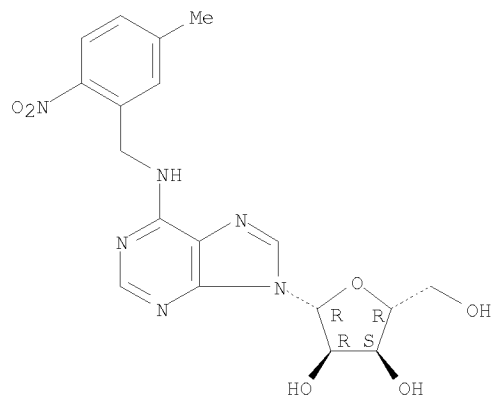
Absolute stereochemistry.



RN 40896-41-1 CAPLUS

CN Adenosine, N-[(5-methyl-2-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



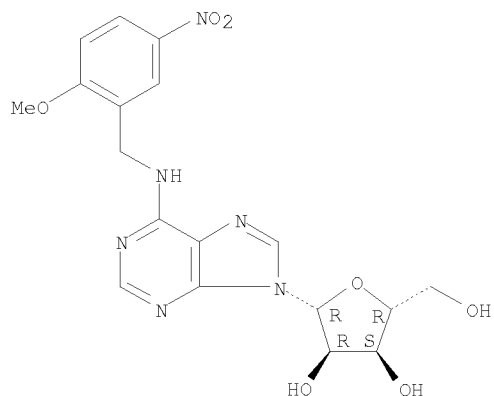
RN 40896-43-3 CAPLUS

CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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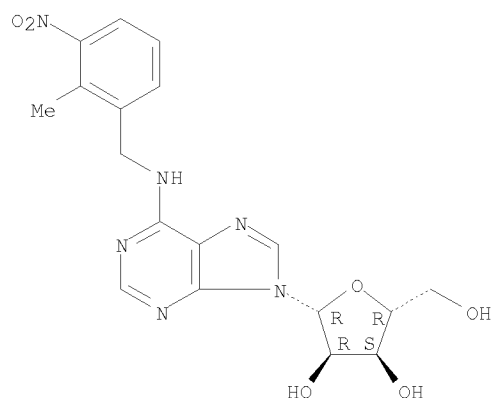
10/540,993



RN 40896-45-5 CAPLUS

CN Adenosine, N-[(2-methyl-3-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

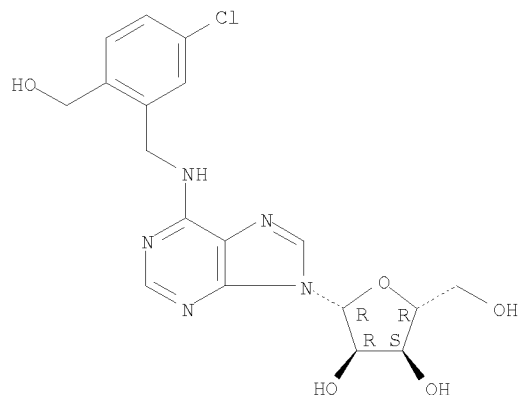
Absolute stereochemistry.



RN 40958-94-9 CAPLUS

CN Adenosine, N-[[5-chloro-2-(hydroxymethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



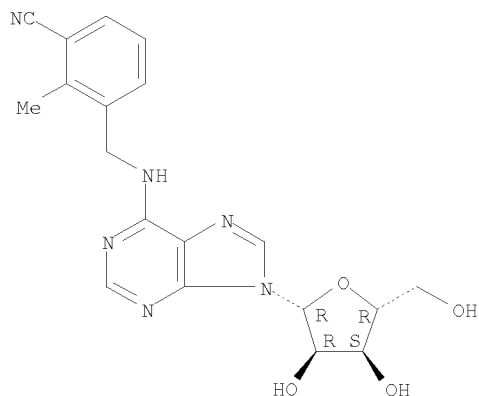
RN 40958-97-2 CAPLUS

CN Adenosine, N-[(3-cyano-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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10/540,993



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 44 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1972:502140 CAPLUS

DN 77:102140

OREF 77:16847a,16850a

TI N-[[[(Hydrazinocarbonyl)phenyl]alkyl]adenosines

IN Jahn, Werner; Kampe, Wolfgang; Fauland, Erich; Juhran, Wolfgang; Stork, Harald

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2060189	A	19720615	DE 1970-2060189	19701208
	US 3787391	A	19740122	US 1971-201174	19711122
	NL 7116564	A	19720612	NL 1971-16564	19711202
	GB 1313459	A	19730411	GB 1971-56025	19711202
	SU 444368	A3	19740925	SU 1971-1721738	19711202
	AU 7136492	A	19730607	AU 1971-36492	19711203
	CH 567045	A5	19750930	CH 1971-17640	19711203
	CH 568330	A5	19751031	CH 1975-8284	19711203
	CH 568331	A5	19751031	CH 1975-8285	19711203
	ZA 7108177	A	19720927	ZA 1971-8177	19711207
	HU 163227	B	19730728	HU 1971-BO1335	19711207
	AT 312172	B	19731227	AT 1971-10533	19711207
	AT 318821	B	19741125	AT 1972-9168	19711207
	AT 318822	B	19741125	AT 1972-9169	19711207
	CA 960656	A1	19750107	CA 1971-129590	19711207
	FR 2117935	A5	19720728	FR 1971-43996	19711208
	FR 2117935	B1	19750314		
	SU 515454	A3	19760525	SU 1973-1959114	19730824
	SU 576955	A3	19771015	SU 1973-1959113	19730824
PRAI	DE 1970-2060189	A	19701208		

GI For diagram(s), see printed CA Issue.

AB Fourteen title compds. (I, 2-, 3-, 4-, or 5-CONHNHR1; Q = CH2, CH2CH2, CH2CH2O; R = H, 2-Me, 3-Cl; R1 = H, p-ClC6H4CO, p-MeOC6H4CO, p-HOCH2CH2OC6H4CO, o-MeC6H4CO), useful as blood-circulation-active and serum-lipids-lowering agents, were prepared by reaction of tri-O-acetyladenosine with R(R1NHNHCO)C6H3QBr or of adenosine N-[R(EtO2C)C6H3Q] derivative with N2H4.H2O.

IT 38790-46-4P 38790-49-7P 38790-52-2P  
38937-31-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

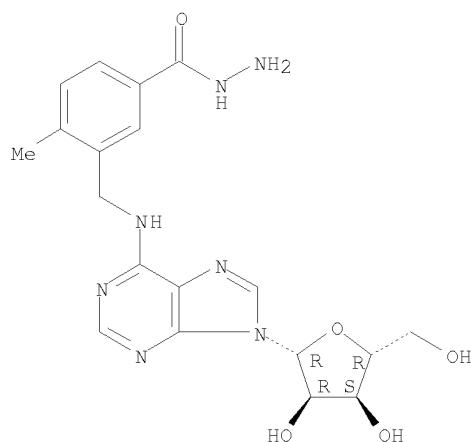
RN 38790-46-4 CAPLUS

CN Benzoic acid, 4-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

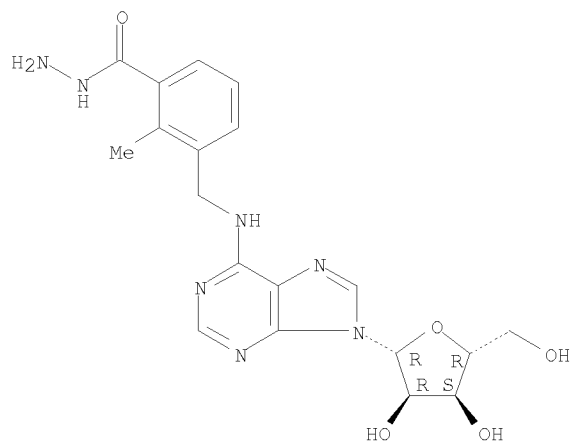
10/540,993



RN 38790-49-7 CAPLUS

CN Benzoic acid, 2-methyl-3-[[[9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (CA INDEX NAME)

Absolute stereochemistry.

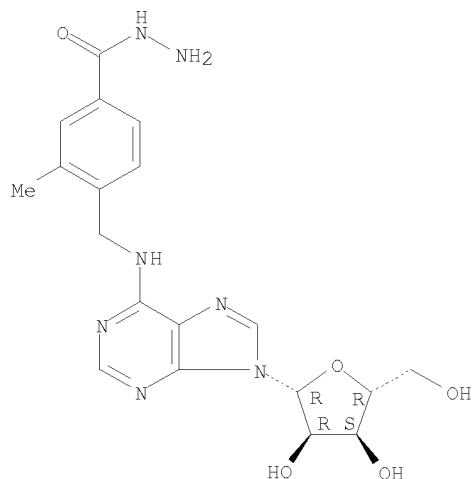


RN 38790-52-2 CAPLUS

CN Benzoic acid, 3-methyl-[[[9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, hydrazide (9CI) (CA INDEX NAME)

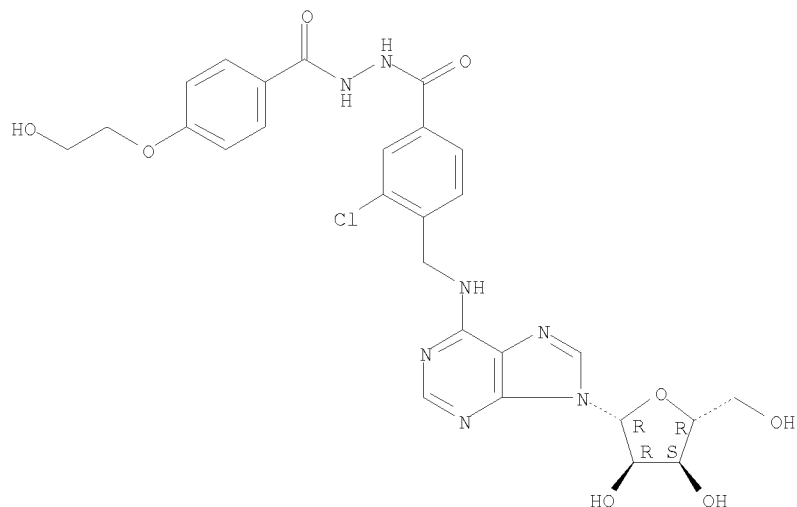
Absolute stereochemistry.

10/540,993



RN 38937-31-4 CAPLUS  
CN Benzoic acid, 3-chloro-4-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, 2-[4-(2-hydroxyethoxy)benzoyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

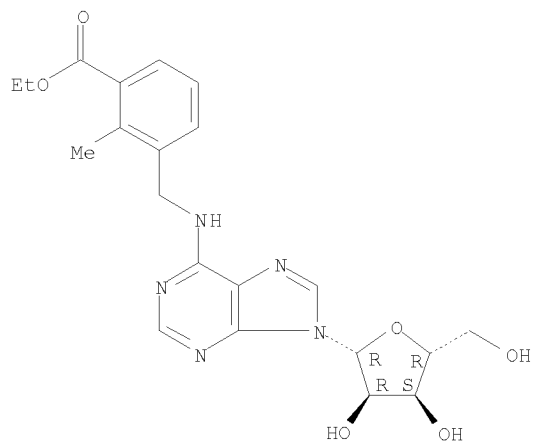
L4 ANSWER 45 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN  
AN 1972:502139 CAPLUS  
DN 77:102139  
OREF 77:16847a,16850a  
TI N-(Acylbenzyl- and -phenethyl)adenosines  
IN Kampe, Wolfgang; Fauland, Erich; Stork, Harald; Juhran, Wolfgang;  
Dietmann, Karl  
PA Boehringer Mannheim G.m.b.H.  
SO Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2059922	A	19720615	DE 1970-2059922	19701205
	US 3817981	A	19740618	US 1971-199727	19711117

McIntosh

SU 469253	A3	19750430	SU 1971-1723201	19711130
SU 506294	A3	19760305	SU 1971-1913745	19711130
NL 7116563	A	19720607	NL 1971-16563	19711202
GB 1313290	A	19730411	GB 1971-56024	19711202
CH 567044	A5	19750930	CH 1971-17633	19711202
CH 573445	A5	19760315	CH 1975-8318	19711202
FR 2116517	A5	19720713	FR 1971-43419	19711203
FR 2116517	B1	19750801		
ZA 7108104	A	19720927	ZA 1971-8104	19711203
AU 7136493	A	19730607	AU 1971-36493	19711203
HU 163670	B	19731027	HU 1971-B01334	19711203
AT 314094	B	19740325	AT 1971-10436	19711203
CA 960655	A1	19750107	CA 1971-129319	19711203
AT 323335	B	19750710	AT 1971-323335	19711203
PRAI DE 1970-2059922	A	19701205		
GI	For diagram(s), see printed CA Issue.			
AB	Forty-five title compds. (I, Y = X, 2-R(R1)C6H39CH2)nNH; n = 1,2; R = 3- or 4-carboxy, -alkoxycarbonyl, -carbamoyl, -allylcarbamoyl; R1 = H, Me; R2 = H, Cl, OH) (II), useful as hypolipemic agents with effects on circulation, were prepared by reaction of the corresponding I (Y = Cl) (III) with X, 2-R(R1)C6H3(CH2)nNH2 and subsequent saponification or amidation. Thus, refluxing III (R2 = H) and 3-EtO2C-C6H4CH2CH2NH2.HCl in EtOH in the presence of Et3N for 3 hr gave 65% II (n = 2, R = 3-EtO2C, R1 = R2 = H), which was heated in EtOH at 120° for 15 hr with NH3 to give 64% II (n = 2, R = 3-H2NCO, R1 = R2 = 5h).			
IT	38823-50-6P	38823-56-2P	38823-59-5P	
	38823-66-4P	38823-69-7P	38823-72-2P	
	38823-79-9P	38823-81-3P	38823-82-4P	
	38823-90-4P			
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)			
RN	38823-50-6 CAPLUS			
CN	Benzoic acid, 2-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)			

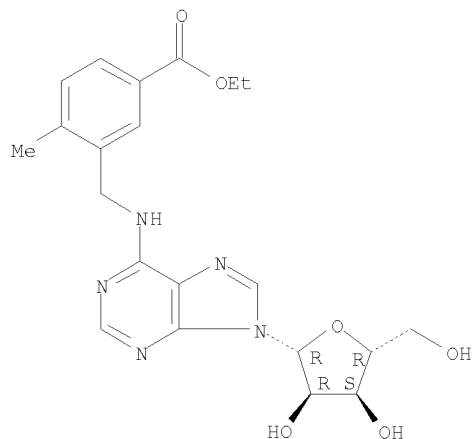
Absolute stereochemistry.



RN 38823-56-2 CAPLUS  
 CN Benzoic acid, 4-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

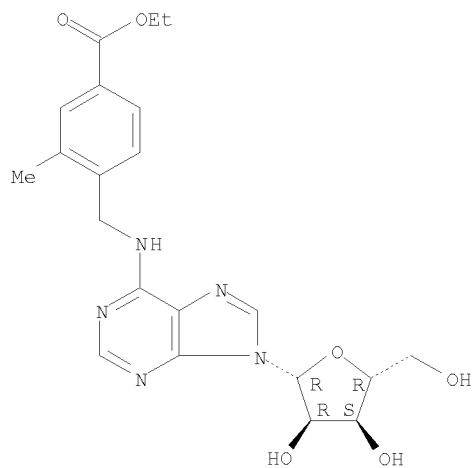
10/540,993



RN 38823-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[[[(9- $\beta$ -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

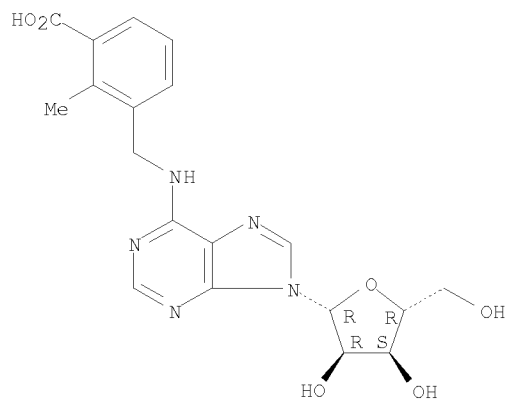
Absolute stereochemistry.



RN 38823-66-4 CAPLUS

CN Benzoic acid, 2-methyl-3-[[[(9- $\beta$ -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



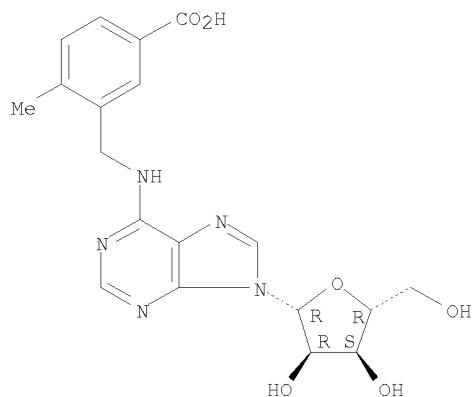
McIntosh

10/540,993

RN 38823-69-7 CAPLUS

CN Benzoic acid, 4-methyl-3-[[[(9- $\beta$ -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

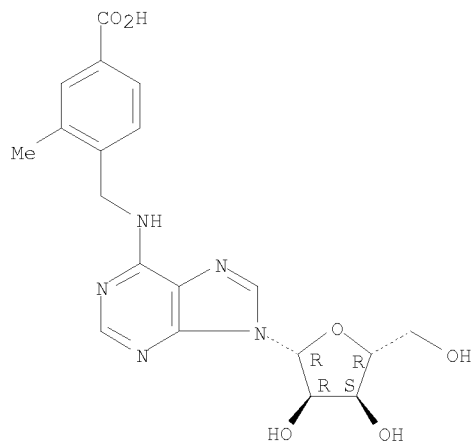
Absolute stereochemistry.



RN 38823-72-2 CAPLUS

CN Benzoic acid, 3-methyl-4-[[[(9- $\beta$ -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



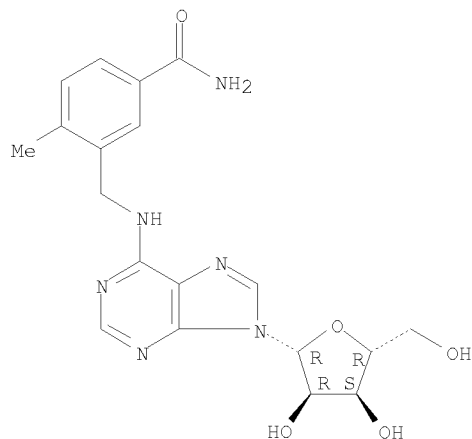
RN 38823-79-9 CAPLUS

CN Adenosine, N-[[5-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

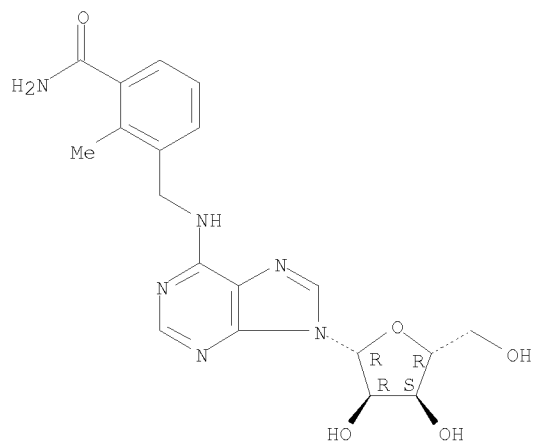
10/540,993



RN 38823-81-3 CAPLUS

CN Adenosine, N-[[3-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

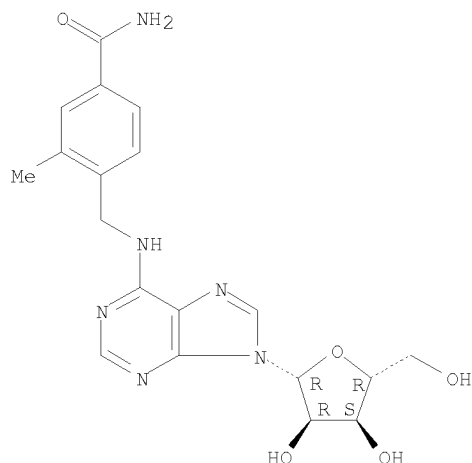


RN 38823-82-4 CAPLUS

CN Adenosine, N-[[4-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

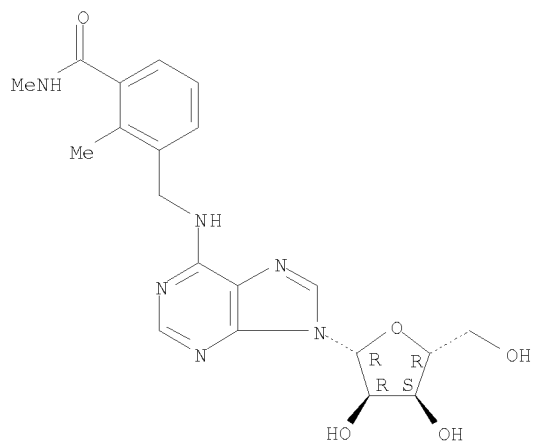
Absolute stereochemistry.

10/540,993



RN 38823-90-4 CAPLUS  
CN Adenosine, N-[[2-methyl-3-[(methyamino)carbonyl]phenyl]methyl]- (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L4 ANSWER 46 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN  
AN 1971:541121 CAPLUS  
DN 75:141121  
OREF 75:22273a,22276a  
TI Coronary dilating N6-benzyladenosines  
IN Kampe, Wolfgang; Pauland, Erich; Thiel, Max; Dietmann, Karl; Juhran,  
Wolfgang  
PA Boehringer Mannheim G.m.b.H.  
SO Ger. Offen., 10 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2007273	A	19710826	DE 1970-2007273	19700218
	SU 399134	A3	19730927	SU 1971-1616102	19710129
	US 3781273	A	19731225	US 1971-112424	19710203
	NL 7102026	A	19710820	NL 1971-2026	19710216
	DK 123357	B	19720612	DK 1971-694	19710216
	HU 162739	B	19730428	HU 1971-B01274	19710216
	CH 549596	A	19740531	CH 1971-2208	19710216

McIntosh

10/540,993

CH 549600	A	19740531	CH 1974-2849	19710216
CA 953714	A1	19740827	CA 1971-105563	19710216
ZA 7101030	A	19711124	ZA 1971-1030	19710217
FR 2081524	A5	19711203	FR 1971-5318	19710217
FR 2081524	B1	19740927		
AT 306251	B	19730410	AT 1971-1378	19710217
AT 313483	B	19740225	AT 1972-1233	19710217
JP 51016440	B	19760524	JP 1971-7691	19710218
GB 1279946	A	19720628	GB 1971-1279946	19710419
PRAI DE 1970-2007273	A	19700218		

GI For diagram(s), see printed CA Issue.

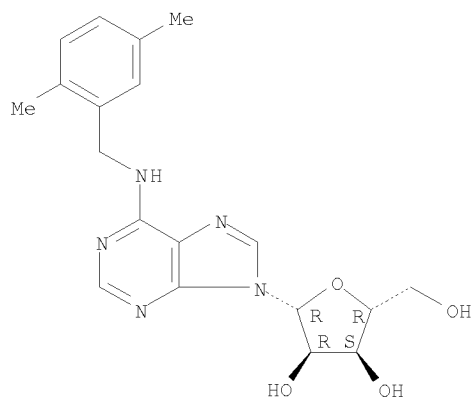
AB The title compds. (I, where R = Me, MeS, or MeO, R1 = 5-Me, 5-Cl, 5-MeO, 5-iso-Pr, 5-F, 5-tert-Bu, 3-Me, or 3-Cl) were prepared wither by amination of the 6-chloro derivative or by N1-substitution of adenosine followed by alkaline rearrangement. Thus, 9-(2,3,5-tri-O-acetyl- $\beta$ -D-ribofuranosyl)-6-chloropurine, 2,5-Me2C6H3CH2NH2, and Et3N in iso-PrOH was refluxed 3 hr and the protective Ac groups cleaved by NaOMe to give 61% I (R = Me, R1 = 5-Me). Similarly prepared were 11 other I.

IT 34349-31-0P 34349-32-1P 34349-33-2P  
34349-34-3P 34349-35-4P 34349-36-5P  
34349-37-6P 34349-38-7P 34349-39-8P  
34349-40-1P 34349-41-2P 34422-72-5P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

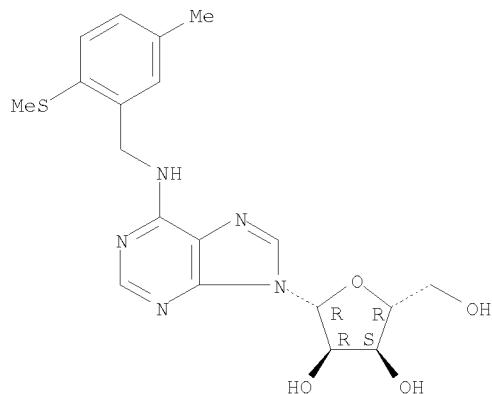
Absolute stereochemistry.



RN 34349-32-1 CAPLUS

CN Adenosine, N-[5-methyl-2-(methylthio)benzyl]- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



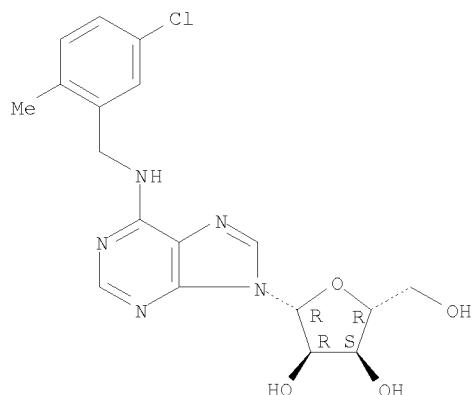
RN 34349-33-2 CAPLUS

McIntosh

10/540,993

CN Adenosine, N-(5-chloro-2-methylbenzyl)- (8CI) (CA INDEX NAME)

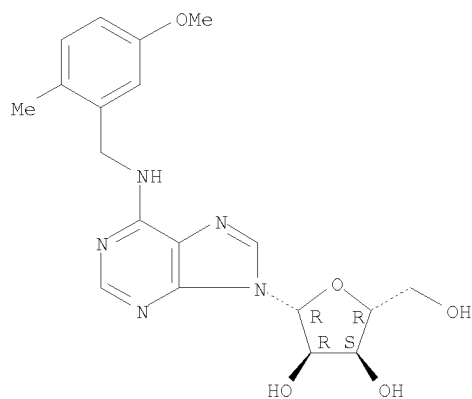
Absolute stereochemistry.



RN 34349-34-3 CAPLUS

CN Adenosine, N-(5-methoxy-2-methylbenzyl)- (8CI) (CA INDEX NAME)

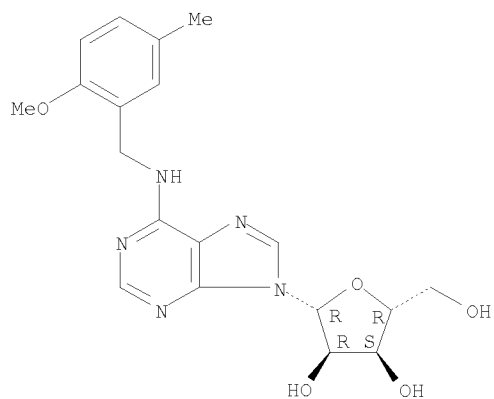
Absolute stereochemistry.



RN 34349-35-4 CAPLUS

CN Adenosine, N-(2-methoxy-5-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



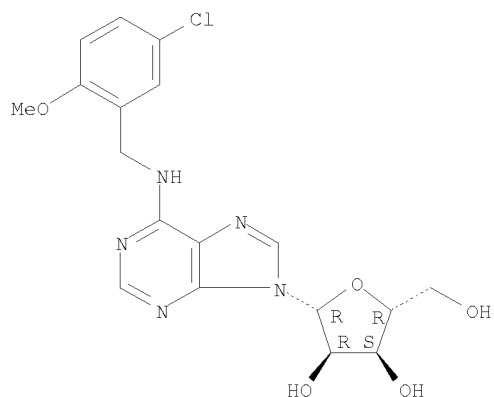
RN 34349-36-5 CAPLUS

CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

McIntosh

10/540,993

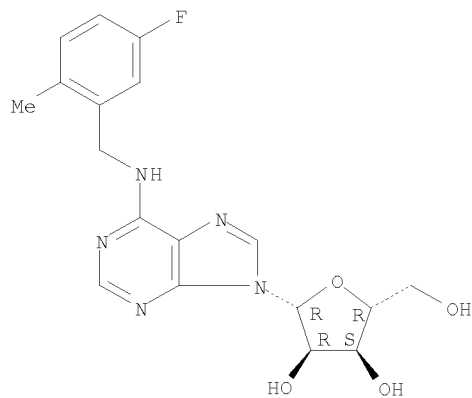
Absolute stereochemistry.



RN 34349-37-6 CAPLUS

CN Adenosine, N-[(5-fluoro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

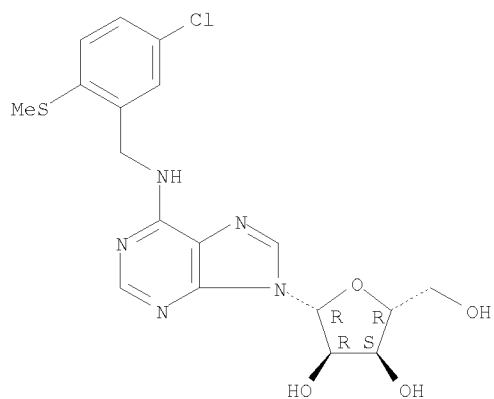
Absolute stereochemistry.



RN 34349-38-7 CAPLUS

CN Adenosine, N-[[5-chloro-2-(methylthio)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



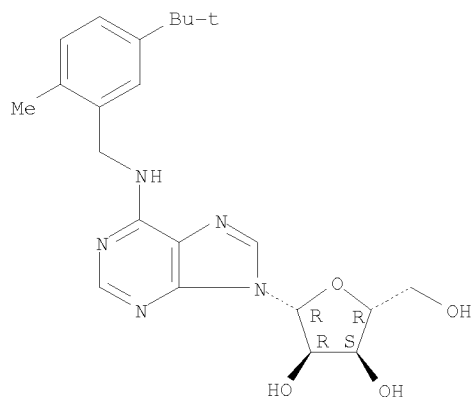
RN 34349-39-8 CAPLUS

CN Adenosine, N-(5-tert-butyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

McIntosh

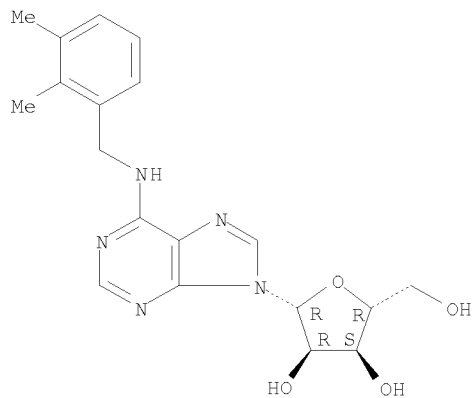
10/540,993

Absolute stereochemistry.



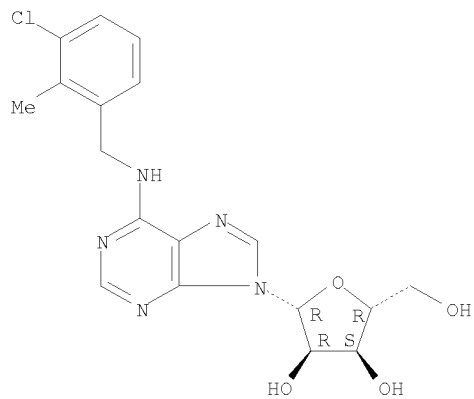
RN 34349-40-1 CAPLUS  
CN Adenosine, N-[(2,3-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34349-41-2 CAPLUS  
CN Adenosine, N-[(3-chloro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

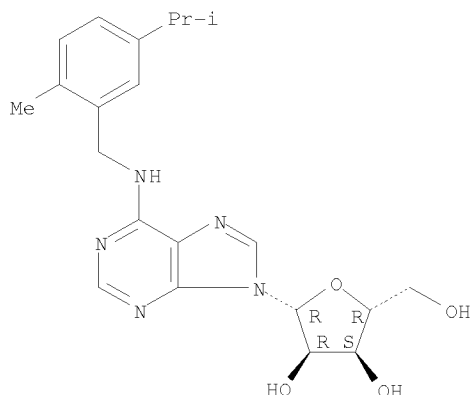


RN 34422-72-5 CAPLUS  
CN Adenosine, N-(5-isopropyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

McIntosh

10/540,993

Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L4 ANSWER 47 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1971:86054 CAPLUS

DN 74:86054

OREF 74:13963a,13966a

TI Inhibition of induced thrombocyte aggregation by adenosine and adenosine derivatives. II. Correlation between inhibition of the aggregation and peripheral vasodilatation

AU Dietmann, Karl; Birkenheier, H.; Schaumann, Wolfgang

CS Med. Forsch., Firma Boehringer Mannheim G.m.b.H., Mannheim-Waldhof, Fed. Rep. Ger.

SO Arzneimittel-Forschung (1970), 20(11), 1749-51

CODEN: ARZNAD; ISSN: 0004-4172

DT Journal

LA German

GI For diagram(s), see printed CA Issue.

AB The ability of adenosine (I) and 20 adenosine derivs. to produce vasodilation in rabbits was correlated with their ability to antagonize ADP-induced thrombocyte aggregation in vitro. The N6-phenylalkyl substituted derivs., N6-(cis, trans-2-phenylcyclopentyl)adenosine and N6-(trans-dl-2-phenylcyclopentyl)adenosine (II), were more active than the aliphatic substituted derivs., 2-chloro-N6-propyl-, 2-chloro-N6-allyl-, and 2-chloro-N6-sec-butyladenosines, as well as the N6-benzyl derivs., 2-chloro-N6-benzyladenosine, 2-amino-N6-(2-chlorobenzyl)adenosine, N6-(o-xyllyl)adenosine, N6-(o-trifluoromethylbenzyl)adenosine, and N6-(3,5-dimethoxybenzyl)adenosine. The most active derivative, II, was half as active as adenosine.

IT 23660-99-3

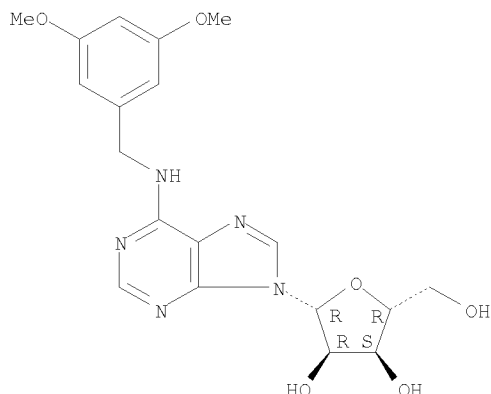
RL: BIOL (Biological study)  
(blood platelet aggregation and vasodilation by)

RN 23660-99-3 CAPLUS

CN Adenosine, N-[(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

10/540,993



L4 ANSWER 48 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1969:115505 CAPLUS

DN 70:115505

OREF 70:21591a,21594a

TI N6-Aralkyl adenosine derivatives

IN Thiel, Max; Stach, Kurt; Jahn, Werner; Schaumann, Wolfgang; Dietmann, Karl

PA Boehringer, C. F., und Soehne G.m.b.H.

SO S. African, 15 pp.

CODEN: SFXXAB

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	ZA 6707414		19680502		
	DE 1670171			DE	
	FR 1550512			FR	
	GB 1145789			GB	
	US 3506643		19700414	US	19671018
PRAI	DE		19661209		
	DE		19670711		

OS MARPAT 70:115505

GI For diagram(s), see printed CA Issue.

AB The title compds. (1), where halogen, alkyl, alkoxy, F3C or alkylthio, or two substituents may be H or a methylenedioxy, are prepared from the corresponding D-ribosides and benzylamines, or from the corresponding N'-substituted adenosine derivs. Thus, 8.2 g. tri-O-acetyl-6-chloro-9- $\beta$ -D-ribosyl-9-H-purine and 7.2 g. 2-ClC6H4CH2NH2 in 120 cc. iso-PrOH were refluxed 2 hrs., worked up and the residue dissolved in 100 cc. MeOH, 10 cc. N NaOH solution added and the mixture refluxed 1 hr. to yield 4 g. I (R = 2-Cl), m. 182-3°. The following I were similarly prepared (R and m.p. given): 3,4-Cl2, 182-3°; 4-MeO, 146-7°; 3,4(MeO)2, 135-6°; 3,4,5-(MeO)3, 118-19°; 2,6-Cl2, 207-9°; 4-Cl, 174-5°; 3-Cl, 168-9°; 2-MeO, 147-8°; 2-Me, 157-8°; 3,5-(MeO)2, 191-2°; 2-MeS, 127-8°; 2-F3C, 160-1°; and 3-F3C, 111-12°. To a suspension of 10 g. 2',3'-O-isopropylideneadeno-sine in 200 cc. MeCN, 10 g. p-BrC6H4Br was added and the mixture refluxed 24 hrs. with stirring. The precipitate which formed was filtered off, dissolved in 150 cc. MeOH and an equal volume 2N NaOH solution was added. The mixture was heated on a steam bath 20 min., extracted with CHCl3, evaporated, and the residue dissolved in 200 cc. HCO2N. Water was added until the mixture became cloudy. The mixture was left standing 1 day at ambient temperature, after which it was evaporated in vacuo, and the residue made weakly alkaline with an aqueous solution of concentrated NH3 to yield 5.8 g. I (R = 4-Br), m. 168-9°. I exhibit an effect on blood vessels and circulation.

IT 23660-95-9P 23660-99-3P 23666-23-1P

23666-25-3P 23666-26-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

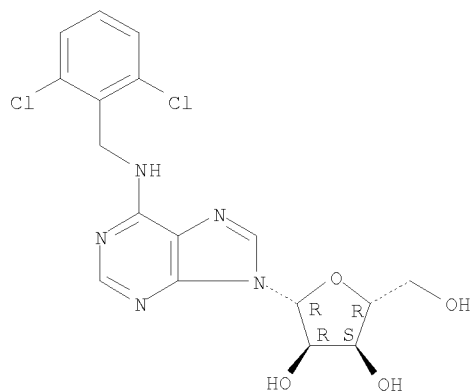
RN 23660-95-9 CAPLUS

CN Adenosine, N-[(2,6-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME)

McIntosh

10/540,993

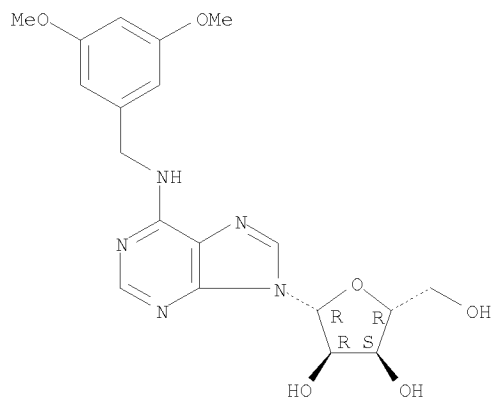
Absolute stereochemistry.



RN 23660-99-3 CAPLUS

CN Adenosine, N-[(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

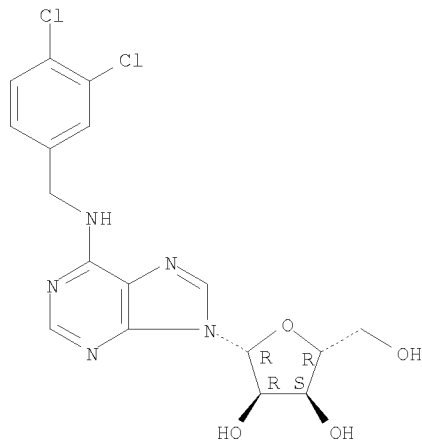
Absolute stereochemistry.



RN 23666-23-1 CAPLUS

CN Adenosine, N-[(3,4-dichlorophenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



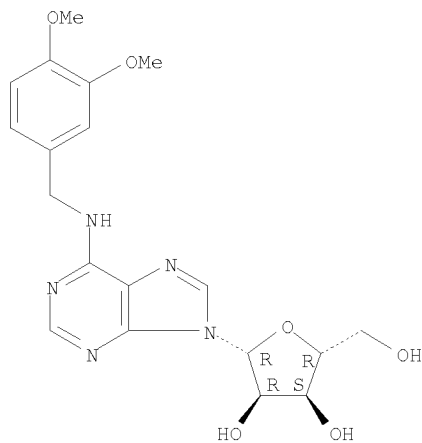
RN 23666-25-3 CAPLUS

CN Adenosine, N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

McIntosh

10/540,993

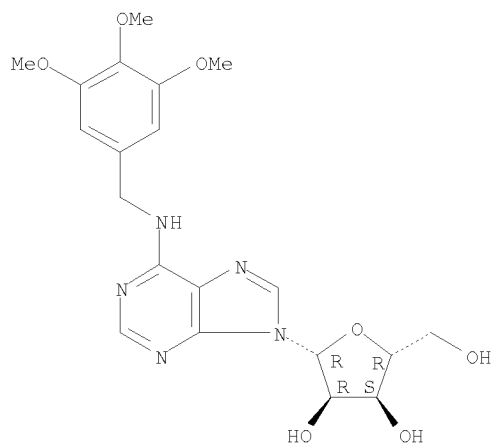
Absolute stereochemistry.



RN 23666-26-4 CAPLUS

CN Adenosine, N-[(3,4,5-trimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

McIntosh